To strengthen our team, we are looking for a

**PhD student in Physical Chemistry**

LMER is a research group of EPFL / Chemical Engineering focusing on the science and technology of renewable energy storage. We are located in the Building of EPFL Valais/Wallis in Sion, Switzerland. Our research focuses on materials for energy storage, i.e. hydrogen and the synthesis of hydrocarbons. Therefore, we investigate the interaction of gases with the surface and the volume of bulk- and nano-materials in different media. The open PhD position is on the research of the hydrogen interaction with metals, nano-materials and CO₂.

**Your Tasks**
- Investigate the reaction of hydrogen with metals and carbon materials.
- Synthesize carbon based and metallic nano-materials.
- Investigate the heterogeneously catalyzed reaction of hydrogen with CO₂.
- Develop new methods for the synthesis of metallic catalysts for CO₂ reduction.
- Publish papers and take care of the instruments in the lab.

**Your Profile**
- You have a MSc degree in physical chemistry or chemical engineering or a related field from a top university
- You are a top-level student aiming to reach the group of world leading scientist
- You have a intrinsic motivation to learn more about surface chemistry, metallurgy, catalysis and thermodynamics
- You have a good level of hands-on experience, a big interest in science and a proven talent to apply your theoretical knowledge to scientific challenges.
- You are ready to work hard and commit yourself to the global competition in science.
- You are able to handle stress and you grow on your challenges and achievements
- You are fluent in English and French or German.

**Our offer**
- Modern equipment in a new laboratory, high level office space and infrastructure.
- A highly dynamic, modern top-level scientific environment
- Exposure to multi-disciplinary research projects from basic research to applications
- Interesting work conditions and flexibility for excellent carrier development.
- Collaboration with industrial partners and opportunities to market results from the research

**Activity rate:** 100%

**Place of work:** EPFL Valais/Wallis, Sion

**Start date:** to be defined

**Contacts:** For complementary information, please contact Ms. Ivana SUTER per e-mail: ivana.suter@epfl.ch

**Sending of applications:** We look forward to receiving your applications by email to lmer@epfl.ch with a motivation letter, a complete curriculum vitae, copies of certificates and two reference letters.

**To be mentioned in your e-mail subject:** Application PhD Position in LMER